

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080589 A1

(51) International Patent Classification⁷: **C12Q 1/37**,
G01N 33/574, 33/68

(21) International Application Number:
PCT/EP2005/001134

(22) International Filing Date: 4 February 2005 (04.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04003740.0 19 February 2004 (19.02.2004) EP

(71) Applicant (for all designated States except US): **BAYER
HEALTHCARE AG** [DE/DE]; 51368 Leverkusen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOLZ, Stefan**
[DE/DE]; Bückmannsmühle 46, 45326 Essen (DE).
BRÜGGEMEIER, Ulf [DE/DE]; Leysiefen 20, 42799
Leichlingen (DE). **GEERTS, Andreas** [DE/DE]; Schuck-
ertstr. 29, 42113 Wuppertal (DE). **SUMMER, Holger**
[DE/DE]; Katernberger Schulweg 3, 42113 Wuppertal
(DE).

(74) Common Representative: **BAYER HEALTHCARE
AG**; Law and Patents, Patents and Licensing, 51368
Leverkusen (DE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH KALLIKREIN 3 (KLK3)

(57) Abstract: The invention provides a human KLK3 which is associated with the endocrine system and hormone disorders, car-
diovascular disorders, metabolic diseases, cancer disorders, neurological disorders, urological disorders and reproduction disorders.
The invention also provides assays for the identification of compounds useful in the treatment or prevention of endocrine system and
hormone disorders, cardiovascular disorders, metabolic diseases, cancer disorders, neurological disorders, urological disorders and
reproduction disorders. The invention also features compounds which bind to and/or activate or inhibit the activity of KLK3 as well
as pharmaceutical compositions comprising such compounds.

WO 2005/080589 A1